

PATENT / DOCKET NO.: 24061.13/TSMC2002-0894
CUSTOMER NO. 27683

**INVENTOR'S DECLARATION FOR
PATENT APPLICATION**

As below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and sole joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

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the specification of which: (check one)

 X is attached hereto.

_____ was filed on
under Attorney's Docket Number
as Application Serial No.
and was amended on _____ (if applicable).

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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CUSTOMER NO. 27683

FULL NAME OF INVENTOR: Ruei-Hung Jang

INVENTOR'S SIGNATURE: Ruei-Hung Jang DATED: 2003. 6. 16

RESIDENCE: 4F., No. 40, Changping St., Sinjhuang City, Taipei County, 242,
Citizenship: Taiwan (R.O.C).

POST OFFICE ADDRESS: Same as above.

Citizenship: ✓ TAIWAN, R.O.C

FULL NAME OF INVENTOR: Chun-Li Fang

INVENTOR'S SIGNATURE: ✓ Chun-Li Fang DATED: ✓ 2003. 6. 16

RESIDENCE: ✓ 10F., No. 6-6, Lane 300, Guangtai Rd., Pingjhen City, Taojuan County
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POST OFFICE ADDRESS: ✓ Same as above

Citizenship: ✓ TAIWAN, R.O.C

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FULL NAME OF INVENTOR: Wen-Hung Tseng

INVENTOR'S SIGNATURE: Wen-Hung TsengDATED: 2003. 6. 16

RESIDENCE:

No. 6, Lane 86, Zhongmen St., Dashi Vill., Jaochia Town,Citizenship: Miaoli County, Taiwan. R.O.CPOST OFFICE ADDRESS: ☒Same as above.Citizenship: ☒ TAIWAN. R.O.C

FULL NAME OF INVENTOR: Tsung-Chi Hsieh

INVENTOR'S SIGNATURE: Tsung-Chi HsiehDATED: 2003. 6. 16RESIDENCE: ☒ No. 4, Lane 5, Alley 62, Sec. 1, Shuei-Yuan St. Tamshui Town, Taipei County
Taiwan, ROCCitizenship: ☒POST OFFICE ADDRESS: ☒Same as aboveCitizenship: ☒ TAIWAN. R.O.C

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FULL NAME OF INVENTOR: Shih-Shiung Chen

INVENTOR'S SIGNATURE: Shih-Shiung Chen DATED: 18-Jun-2003

RESIDENCE: NO. 9, Lane 5, Alley 411, Sec. 4, ChungHua Rd, Hsin-Chu
City, Taiwan, ROC

Citizenship: TAIWAN, R.O.C

POST OFFICE ADDRESS: Same as above

Citizenship: TAIWAN, R.O.C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	§	Attorney Docket No.: 24061.13
Jang, et al.	§	TSMC2002-0894
Serial No.: Unknown	§	
Filed: Herewith	§	Customer No. 27683
	§	
	§	Group Art Unit: Unknown
	§	
For: METHOD AND APPARATUS FOR	§	Examiner: n/a
FILTERING CONTAMINANTS	§	

Commissioner for Patents
Washington, D.C. 20231

POWER OF ATTORNEY FOR PATENT APPLICATION

As a representative of the Assignee, Taiwan Semiconductor Manufacturing, Inc., I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

David M. O'Dell (Reg. No. 42,044); David L. McCombs (Reg. No. 32,271); Jeffrey M. Becker (Reg. No. 35,442); James R. Bell (Reg. No. 26,528); Timothy F. Bliss (Reg. No. 50,925); Randall C. Brown (Reg. No. 31,213); Randall E. Colson (Reg. No. 40,566); Michael A. Davis, Jr. (Reg. No. 35,488); Ruben C. DeLeon (Reg. No. 37,812); Andrew S. Ehmke (Reg. No. 50,271); Rita M. Irani (Reg. No. 31,028); Warren B. Kice (Reg. No. 22,732); J. Andrew Lowes (Reg. No. 40,706); Todd Mattingly (Reg. No. 40,298); John Montgomery (Reg. No. 31,124); Bill R. Naifeh (Reg. No. 44,962); Gloria Norberg (Reg. No. 36,706); and Chien Wei Chou (Reg. No. 41,672).

Please address all correspondence and telephone calls regarding this application to:

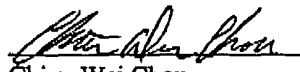
David M. O'Dell
Attorney for Applicants
Haynes and Boone, LLP
901 Main Street, Suite 3100
Dallas, TX 75202-3789
972-739-8635

The undersigned is the representative for the Assignee of the entire right, title, and interest in the patent application identified above. A copy of the assignment or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is authorized to act on behalf of the Assignee.

Taiwan Semiconductor Manufacturing, Inc.

Date


Chien-Wei Chou
Title: Director, IP Division

ASSIGNMENT

WHEREAS, we

- (1) Ruei-Hung Jang of Singhuang City
Taiwan, R.O.C.
- (2) Chun-Li Fang of Pingjhen City
Taiwan, R.O.C.
- (3) Wen-Hung Tseng of Juochiao Town
Taiwan, R.O.C.
- (4) Tsung-Chi Hsieh of Tamshui Town
Taiwan, R.O.C.
- (5) Shih-Shiung Chen of Hsin-Chu City
Taiwan, R.O.C.

have invented certain improvements in

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for which we have executed an application for Letters Patent of the United States of America, of even date herewith; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Inc., ("TSMC"), No. 6, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States

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of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

First Inventor Name:
Residence Address:

Ruei-Hung Jang

Dated:

✓ 2003. 6. 16

Inventor Signature

✓ Ruei-Hung Jang

Dated:

Witness Signature

Witness Name:

Second Inventor Name:
Residence Address:

Chun Li-Fang

Dated:

✓ 2003. 6. 16

Inventor Signature

✓ Chun Li-Fang

Dated:

Witness Signature

Witness Name:

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Third Inventor Name:
Residence Address:

Wen-Hung Tseng

Dated:

✓ 2003. 6. 16

Wen-Hung Tseng
Inventor Signature

Dated:

Witness Signature

Witness Name:

Fourth Inventor Name:
Residence Address:

Tsung-Chi Hsieh

Dated:

✓ 2003. 6. 16

Tsung-Chi Hsieh
Inventor Signature

Dated:

Witness Signature

Witness Name:

Fifth Inventor Name:
Residence Address:

Shih-Shiung Chen

Dated:

✓ 18. Jun - 2003

✓ Shih-Shiung Chen
Inventor Signature

Dated:

Witness Signature

Witness Name: